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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,613	11/28/2006	Annick Michele Yvonne Lim	05394.0024	4824
	7590 10/01/200 IENDERSON, FARAE	8 SOW, GARRETT & DUNNER	EXAMINER	
LLP			THOMAS, DAVID C	
901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			ART UNIT	PAPER NUMBER
			1637	
			MAIL DATE	DELIVERY MODE
		10/01/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/582,613	LIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	DAVID C. THOMAS	1637				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J. lely filed the mailing date of this c ○ (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	·					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the mer						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-54 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-54 are subject to restriction and/or expressions. 						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of the	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CI				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

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DETAILED ACTION

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Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-31, 40-46 and 51-53, drawn to a method for determining the quantitative and qualitative profile of the repertoire of a given type of an immunoglobulin heavy chain expressed by a lymphocyte B population present in a tissue sample.

Group II, claim(s) 32-39, 47-50 and 54, drawn to primer and probe sets and kits containing the primers.

2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I, drawn to claims 1-31, 40-46 and 51-53, included one or more claims which were found to be anticipated by the prior art, specifically by Delassus et al. (J. Immunolog. Meth (1995) 219-229, listed as an X reference in the international search report) which teaches a PCR-based method for analysis of murine immunoglobulin heavy-chain repertoire (see Abstract, and p. 220, column 2, line 37 to p. 221, column 1, line 30, p. 222, column 1, line 29 to column 2, line 4, p. 224, column 1, lines 8-14, and Figures 1 and 4). As MPEP 1893.03(d) notes "The expression special technical features is defined as meaning those technical features that define the contribution which each claimed

invention, considered as a whole, makes over the prior art." In the current case, claims 1-31, 40-46 and 51-53 are drawn to a method for determining the quantitative and qualitative profile of the repertoire of a given type of an immunoglobulin heavy chain expressed by a lymphocyte B population present in a tissue sample in Group I, but that Group does not make a contribution over the prior art because the invention is anticipated by the prior art. Therefore, there is no single inventive concept under PCT Rule 13.1 and the lack of unity requirement is proper.

In addition, should the applicant elect Group I, the applicant is required to select no more than two sequences from each of Groups III-VI below. Alternatively, should the applicant elect Group II, the applicant is required to select no more than two sequences from each of Groups III-V below.

Group III, the individual SEQ ID Nos. 1-15, 31 and 47, representing VH forward primers generic to claims 5, 26, 27 and 32.

Group IV, the individual SEQ ID Nos. 16-25, representing JH forward primers generic to claim 30 and 49:

Group V, the individual SEQ ID Nos. 26-28, 33, 40-42 and 44, representing CH reverse primers generic to claims 8-13, 21, 35-40 and 54;

Group VI, the individual SEQ ID Nos. 29, 30, 34-37, 45 and 46, representing CH reverse and VH forward probes generic to claims 14-20, 22, 23 and 28;

The inventions listed in Groups III-VI do not relate to a single general inventive concept under PCR Rule 13.1 because, under PCR Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Groups III-V are drawn to forward and reverse primer sequences while Group VI is drawn to hydrolysis

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probes, with each primer or probe specific for unique immunoglobulin heavy chain gene sequences and therefore each has a unique sequences of nucleotides.

3. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order

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to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement may be traversed (37 CFR 1.143).
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David C. Thomas whose telephone number is 571-272-3320 and whose fax number is 571-273-3320. The examiner can normally be reached on 5 days, 9-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/David C Thomas/ Examiner, Art Unit 1637

/Kenneth R Horlick/ Primary Examiner, Art Unit 1637